

32. *Distoma* *. Small intestine of pochard (*Fuligula ferina*).

* In the month of January 1839 I found a large number of an apparently undescribed species of *Distoma* in the small intestine of the pochard (*Fuligula ferina*); when recent they were subrotund, but (after having lain in water for twenty-four hours) they became nearly flat on being placed in spirits; colour reddish at first, afterwards dirty white; head subreniform, unarmed; neck (or that part between the pores) generally curved, the concavity upon the abdominal surface forming a channel at this place. Both extremities attenuated. Pores orbicular, seated near each other; anterior very small and terminal; ventral much larger, cup-shaped and prominent. Between the anterior and ventral pore, close to the ventral, a lemniscus is sometimes seen to project.

[To be continued.]

 XLVIII.—*Additions to the Fauna of Ireland.* By WILLIAM THOMPSON, Pres. Nat. Hist. and Phil. Society of Belfast.

MOLLUSCA.

Class GASTEROPODA.

Order NUDIBRANCHIATA.

Doris repanda, Alder and Hancock, Annals Nat. Hist. vol. ix. p. 32.

A specimen of this *Doris* was found between tide-marks at Roundstone, county Galway, in July 1840: R. Ball, E. Forbes, W. T.

Doris aspera, Ald. and Hanc., Ann. Nat. Hist. ix. 32. Very young examples of a *Doris*, and most probably (according to Mr. Alder) of this species, were obtained at Glandore bay, county of Cork, by Dr. George J. Allman in the month of August 1842. Mr. Alder himself procured specimens of *D. aspera* during an excursion in September last with Dr. Farran of Dublin to Malahide, on the coast of the county of Dublin*.

Goniodoris nodosa, Mont. (sp.); *Doris nodosa*, Mont., Linn. Trans. vol. ix. p. 107. t. 7. f. 2. Twelve specimens of *G. nodosa* occurred on a plant of *Fucus vesiculosus* dredged in Killery bay, county of Galway, in July 1840: R. Ball, E. Forbes, G. C. Hyndman, W. T. Mr. Alder found the species to be plentiful at Malahide in September last.

Polycera ocellata, Ald. and Hanc., Ann. Nat. Hist. vol. ix. p. 33. Mr. Alder, by means of the dredge, took this species commonly and of all sizes in Dublin bay in August last, and subsequently obtained a specimen at Malahide.

Polycera citrina, Alder, Ann. Nat. Hist. vol. vi. p. 340. pl. 9. f. 7—9.

* The new species of *Mollusca Nudibranchia* obtained on this occasion are described by Messrs. Alder and Hancock at p. 161 of the present volume.

Mr. Alder dredged two or three specimens of this species in Dublin bay at the same time with the last.

Polycera cristata, Alder, Ann. Nat. Hist. vol. vi. p. 340. pl. 9. f. 10, 11. Obtained with the preceding two species :—common.

Tritonia plebeia, Johnst., Ann. Nat. Hist. vol. i. p. 115. pl. 3. f. 3, 4. A specimen was taken by dredging in Cork harbour, August 1843 : R. Ball and E. Forbes.

Tritonia arborescens, Cuv. Several specimens of a small size were taken by Mr. Alder and Dr. Farran at Malahide. *Tritonia lactea*, Ann. Nat. Hist. vol. v. p. 88. pl. 2. f. 3, is considered by Mr. Alder a variety of *T. arborescens*.

Melibæa coronata, Johnst., Ann. Nat. Hist. vol. i. p. 117. pl. 3. f. 5—8. Obtained at Glandore bay, county Cork, in August 1842, by Dr. George J. Allman, and subsequently in Dublin bay by Mr. Alder, who is now of opinion that the *Melib. ornata*, Ann. Nat. Hist. vol. ix. p. 33, is a variety of *M. coronata*.

Eolis coronata, Forbes, Report Brit. Assoc. Meeting 1839, p. 647. Procured with the last at Glandore bay : found to be common at Malahide by Mr. Alder and Dr. Farran.

Eolis pallida, Ald. and Hanc., Ann. Nat. Hist. vol. ix. p. 35. A single example taken at Malahide with the preceding.

Order INFEROBRANCHIATA.

Pleurobranchus membranaceus, Mont. (sp.); *Lamellaria memb.*, Mont., Linn. Trans. vol. xi. p. 184. pl. 12. f. 3. Mr. John Humphreys of Cork has informed me that a specimen occurred to Mr. Beevor and himself when dredging in the harbour there last summer : “the animal was large, about 2 inches in length, and the shell a very good one”—the species had not before been met with by Mr. Humphreys.

Order TECTIBRANCHIATA.

Bulla diaphana, Turt., Conch. Dict. p. 22 ; *Diaphana pellucida*, Brown's Illust. 1st ed. ? Two specimens have been taken by Mr. Hyndman and myself when dredging in Strangford lough, and the species has been found by Mr. T. W. Warren at Portmarnock, on the Dublin coast.

Bulla hyalina, Turt., Loudon's Mag. of Nat. Hist. vol. vii. p. 353. Obtained at Portmarnock by Mr. Warren ; and in shell-sand collected at Bundoran and Ballysodare on the western coast by Mrs. Hancock.

Bulla pectinata, Dillw. ; *B. scabra*, Müll., Zool. Dan. ; *B. angustata*, Phil. ; *B. catenulifera*, *Scaphander catenata*, Leach. All these names, according to Mr. Alder, refer to the same species : it has been found at Portmarnock by Mr. Warren, and at Bundoran (co. Donegal) by Mrs. Hancock. Mr. Humphreys of Cork notices it under Leach's name as procured by him there in the stomach of a sole (*Solea vulgaris*).

Bullæa punctata, Adams (sp.) ; Turt., Loudon's Mag. Nat. Hist. vol. vii. p. 353. Obtained from three localities on the western coast—Miltown Malbay (W. H. Harvey), Kilkee in the co. Clare, and Bun-

doran (Mrs. Hancock). Mr. Alder notes this as distinct from *B. catena*, Mont., with which some authors have considered it identical.

? *Auricula fusiformis*, Turt. (sp.); *Voluta fusif.*, Turt., Conch. Dict. p. 251. Mr. Alder, on examination of a shell from Portmarnock in Mr. Warren's collection agreeing with the description of *Voluta fusiformis*, was disposed to believe it worthy of specific rank: a similar shell was obtained at Bundoran by Mrs. Hancock.

Order PECTINIBRANCHIATA.

Eulima distorta, Desh. (sp.); *Melania distorta*, Philippi, Moll. Siciliae, p. 158. tab. 9. f. 10. Dredged from a depth of 15 fathoms in Birterbuy bay, co. Galway, by Dr. Farran; Portmarnock, Mr. Warren. Mr. Alder is of opinion that the *E. polita* of Macgillivray's Aberdeenshire Mollusca may be this species.

*Parthenia** (Lowe) *indistincta*, Mont. (sp.); *Turbo indistincta*, Mont. † Found at Portmarnock by Mr. Hyndman (1835), and at Bundoran by Mrs. Hancock.

Parthenia glabra, Leach (sp.); *Alvania glabra*, Leach MSS. British Museum. Mr. Alder remarks—"A specimen I have from Portmarnock is the same as is marked *Alvania glabra*, Leach, in the British Museum, but it may be a worn variety of *Turritella ascaris*." It has been collected at the locality already named by Mr. Warren, and at Bundoran by Mrs. Hancock.

Rissoa rufilabrum, Leach (sp.); Alder in present vol. p. 325. Mr. Alder refers a *Rissoa* obtained at Portmarnock by Mr. Warren to this species.

Odostomia spiralis, Mont. (sp.). In shell-sand from Magilligan, county Londonderry, collected by Miss Moody; Portmarnock, Mr. Warren.

Odostomia interstincta, Mont. (sp.). Portmarnock, Mr. Warren.

Odostomia cylindrica, Alder in present vol. p. 327. A single example of this new species has been obtained in shell-sand collected at Bundoran by Mrs. Hancock.

Odostomia obliqua, Alder in present vol. p. 327. Two specimens obtained with the last.

Fusus Barvicensis, Johnst., Edin. Phil. Journ. vol. xiii. p. 221. A specimen is in the collection of Irish shells of the late John Templeton, Esq., presented by his family to the Belfast Museum: it was probably found in the north.

Pleurotoma Boothii, Smith (sp.), Wern. Mem. viii. part 1. A specimen has been obtained at Portmarnock by Mr. Warren.

Pleurotoma Trevellyanum, Turt., Loudon's Mag. Nat. Hist. vol. viii. As last.

* In Part 2 of the excellent 'Enumeratio Molluscorum Siciliae' of Philippi, his genus *Pyrgiscus* and *Parthenia* of Lowe are referred to *Chemnitzia* of D'Orbigny as the prior name.

† Dr. Fleming's *Turritella indistincta* is different from that of Montagu, and identical with the *Turr. fulvocincta* described in the fifth volume of the 'Annals.'

Planaxis? lineata, Da Costa (sp.); *Buccinum lineatum*. A specimen was found in a fishing-boat at Bray, near Dublin, by Mr. Warren, and several specimens have been collected on the beach at Buncrana by Mrs. Hancock. Professor E. Forbes remarks that the species should probably be a *Nassa*, especially if truly native.

Velutina otis, Turton. Procured at Miltown Malbay by Mr. W. H. Harvey, and in Clifden bay, county Galway, a dead specimen was obtained by dredging, in July 1840: R. Ball, E. Forbes, G. C. Hyndman, W. T.

Class ACEPHALA.

Order BRACHIOPODA.

Terebratula aurita, Flem., Phil. Zool.; *T. caput-serpentis*, Lam. The Ordnance Museum, Phoenix Park, Dublin, contains a specimen labelled as obtained at "Whitehead bay, county Antrim, November 1839:" it was I believe taken alive by dredging.

Terebratula psittacea, Turt. (sp.), Conch. Dict. p. 5. A specimen of this *Terebratula*, labelled "Dublin bay," was observed by Mr. Alder and myself in the museum of the Royal Dublin Society in August last. Turton mentions a single specimen of "*Anomia terebratula*" being "dredged up alive in Dublin bay, and placed in the museum of the Dublin Society," but we could not ascertain whether the shell now preserved was that alluded to by Turton. "*Anomia psittacea*" was noticed by him only as an English species.

Order LAMELLIBRANCHIATA.

Pecten nebulosus, Brown's Illust. In Dr. Farran's collection are specimens of this *Pecten*, purchased of a dealer who stated that he procured them from Lough Foyle, county Londonderry: this evidence, as Dr. Farran remarks, is insufficient; but it seems to me desirable to notice the circumstance, as the species, which inhabits the western coast of Scotland, may probably occur on the neighbouring coast of Ireland. I have seen fine specimens from Lough Fyne, Argyleshire. *Pecten glaber*, Penn. and Mont., believed to be identical with this, has been obtained by Mr. Humphreys at Cork (Ann. Nat. Hist. vol. v. p. 12).

Lima tenera, Turton, Zool. Journ. vol. ii. The Ordnance Museum contains upon a card a fresh-looking specimen of this shell, and one of *Lima fragilis* labelled with the latter name as dredged from 7 fathoms in Belfast bay. *L. tenera* has long been known to me as found, by Dr. Wm. McGee, in a recent deposit of mud in Belfast bay, close to the town.

Arca Noë, Linn. Fine and perfect specimens of the true *Arca Noë* (according to Mr. Alder) are in Mr. Warren's collection: they were procured on the coast of Cork by Mr. Townsend.

Amphidesma tenuis, Turt., Brit. Biv. p. 53; *Ligula tenuis*, Mont., Test. Brit. p. 572. t. 17. f. 7. I have received specimens of this well-marked species from Larne lough, county of Antrim.

Lepton squamosum, Turt., Brit. Biv.; *Solen squamosum*, Mont. A

single valve of this shell was dredged in Cork harbour in August last: Prof. E. Forbes, Mr. R. Ball.

Montacuta substriata, Mont. (sp.); *Ligula substriata*, Mont. Found on the purple heart-urchin (*Spatangus purpureus*), dredged from 25 fathoms at the entrance of Belfast bay by Mr. Hyndman in May 1842.

Gastrochæna pholadia, Mont. (sp.), Turt. Brit. Biv.; *G. hians*, Flem.; *Mya pholadia*, Mont.; *Mya dubia*, Penn. South islands of Arran, off Galway bay, and Youghal, county Cork, Mr. R. Ball.

Pholas papyraceus, Turt., Brit. Biv. p. 2. tab. 1. f. 1—4; *Pholas lamellatus*, ibid. p. 4. tab. 1. f. 5, 6. Two specimens of this shell in the Ordnance Museum are labelled "Portrush," north of Ireland. In the fifth volume of the 'Annals,' p. 14, this species was noticed as Irish with some doubt. Mr. W. H. Harvey now writes to me that "the specimen there alluded to as found in a fishing-boat at Dublin was procured by Mr. Wm. Todhunter, who believes it to have been dredged on a shelly bank between Howth and Lambay. It certainly was imbedded in a sandy conglomerate of shells, &c., which is commonly dredged in this place—the Torbay habitat, if I remember right, is hard red-sandstone, and totally different." It is remarked, in reference to the former note—"All the boats of a certain class in this port (Dublin) are called 'Torbay' boats, as they originally came from that place."

Pholas striatus, Linn., Mont. Test. Brit. p. 26; *P. conoides*, Parsons, Flem. Brit. Anim. p. 457. January 7, 1842, I was favoured with the following communication by Mr. Warren of Dublin:—"I send for your examination a *Pholas* which is new to me, and should like to know if it has been obtained before in Ireland. It was found with others in a piece of water-logged mahogany near Killala, in the county of Sligo, by Richard Glennon, jun." With the letter were a single valve and a perfect specimen, which corresponded well with the descriptions of Montagu and Fleming: the specimens were 4 lines in length and $7\frac{1}{2}$ in breadth; the plate at the hinge "sub-oval," as described by Montagu.

In January 1844 I was further informed by Mr. Warren, that he had received a specimen of this *Pholas* from Mr. Gaggot, who found several on the coast of Clare. The occurrence of the species in the first instance was I believe noticed in the 'Dublin Penny Magazine.'

Pholas parvus, Mont. Was procured many years ago off the Long Strand, Belfast bay, by Dr. J. L. Drummond; subsequently by the Ordnance collectors at Whitehouse Point in the same bay.

MOLLUSCA TUNICATA.

Ascidia mentula, Müll., Zool. Dan. vol. i. p. 6. t. 8. f. 1—4. (*Phallusia*, Savigny). Belfast bay; Roundstone bay, co. Galway, adhering to a stone between tide-marks, W. T. &c.

Ascidia conchilega, Müll., Zool. Dan. vol. i. p. 42. t. 34. f. 4—6. Coasts of Antrim and Down, W. T.

- Ascidia canina*, Müll., Zool. Dan. vol. ii. p. 19. t. 55. f. 1—6. (*Phal-lusia*, Sav.) Strangford lough; Clew bay (co. Mayo), W. T. &c.
Ascidia communis, Forbes MSS. Clew bay, E. Forbes, &c.
Amaroucium proliferum, Edw., Ascid. Compos. p. 67. pl. 1. f. 3, and pl. 3. f. 2. Belfast bay, W. T.
Leptoclinum gelatinosum, Edw., Asc. Comp. p. 83. pl. 8. f. 1. On the roots of *Laminariæ* in Belfast bay, W. T.
Leptoclinum maculosum, Edw., Asc. Comp. p. 81. pl. 8. f. 2. On the roots of *Laminariæ* in Belfast bay and north of Ireland generally—our most common *Leptoclinum*, W. T.
Leptoclinum asperum, Edw., Asc. Comp. p. 82. pl. 8. f. 3. With last.
Leptoclinum durum, Edw., Asc. Comp. p. 82. pl. 8. f. 4. Dredged in Strangford lough, Mr. Hyndman and W. T.
Botryllus gemmeus, Sav., Edw. Asc. Comp. p. 89. pl. 6. f. 5. Adhering to *Fuci* dredged in Belfast bay by Edmund Getty, Esq.
Botryllus bivittatus, Edw., Asc. Comp. p. 92. pl. 6. f. 7.* With last.

CRUSTACEA.

- Alauna rostrata*, Goodsir, Edin. Phil. Journ. vol. xxxiv. p. 130. pl. 4? (Jan. 1843). Taken at Newcastle, county Down, August 1836, W. T.
Cuma trispinosa, Goodsir, Edin. Phil. Journ. vol. xxxiv. p. 129. pl. 3. f. 1.? Portaferry, Strangford lough, summer of 1838, Robert Patterson.
Proto pedatum, Müll. (sp.), Zool. Dan.; *Leptomera pedata*, Edw., Hist. Crust. vol. iii. p. 109. Among *Algæ* dredged at Bangor, county Down, 1834, Mr. Hyndman and W. T.
Arcturus longicornis, Sowerby (sp.), Brit. Misc. pl. 10. Specimens from Belfast bay are in the Ordnance Museum, and from Dublin bay in the Museum of the Royal Dublin Society.
Spheroma rugicauda, Leach, Linn. Trans. vol. xi. p. 369? Coast of Down, W. T.
Cirolana Cranchii, Leach. Obtained in Belfast bay by the Ordnance collectors and by Mr. Hyndman, who brought me several specimens taken by him on the common skate (*Raia Batis*). Specimens from Dublin bay are in the museum of the Royal Dublin Society.
C. Cranchii has been sent me from Portpatrick, Scotland.
Cecrops Latreillii, Leach. Examples of this species found on a sun-fish (*Orthogoriscus Mola*) at Kinsale, county Cork, in August last by Dr. Geo. J. Allman, have been kindly sent to me by that gentleman.
Lerneonema monillaris, Edw., Hist. Crust. vol. iii. p. 525. pl. 41. f. 5. This species has been favoured me by Mr. R. Ball, who procured specimens adhering to the sprat (*Clupea Sprattus*) at Youghal.

* In concluding the Mollusca, two species may be referred to as noticed in a Report on the Invertebrata of Ireland, published in the Transactions of the British Association for 1843. They are *Peracle Flemingii*, Forbes (*Fusus retroversus*, Flem.), and *Amphipeplea glutinosa*.

- Mr. Ball remarks that when alive it is of a beautiful green colour, and generally adheres to the cornea of the fish's eye: one of those sent to me is fixed to the body of the sprat close to the dorsal fin.
- Nymphum gracile*, Leach, Zool. Misc. vol. i. p. 45. pl. 19. f. 1. Shores of Antrim and Down, W. T.
- Orythia coccinea*, Johnst., Mag. Zool. and Bot. vol. i. p. 378. pl. 13. Portaferry, Strangford lough, 1837: Mr. Hyndman and W. T. See Edw. Hist. Crus. vol. iii. p. 536.
- Pychnogonum littorale*, Strom. (sp.), Edw. Hist. Crust. vol. iii. p. 537.
- Pychnogonum balanarum*, Fabr. This common species was incidentally omitted in former "Additions to the Fauna of Ireland." *Pyc. balanarum* must on our coast be content with a smaller victim than a whale, and condescends to suck the juices of an *Actinia*. In January 1834, several of these parasites, from a very minute to a middle size, were found upon the *Actinia mesembryanthemum* at Bangor* by Mr. Hyndman and myself: on the shore near Dublin, the *Pychnogonum* has likewise been taken on *Actinia* by Dr. Bellingham. Specimens from Ballantrae, Ayrshire, and Whitehaven, Cumberland, are in my collection: among oysters brought from the latter place to Belfast, I have found them particularly numerous.

CIRRHIPEDA.

- Anatifa dentata*, Lam. A specimen of this *Anatifa* from Magilligan, county Londonderry, is in Mr. Hyndman's collection. It presents every character of *A. laevis*, Lam., except in the dorsal valve being slightly dentate—a character insufficient in my opinion to constitute a specific difference.
- Pollicipes cornucopiæ*, Leach; *Lepas pollicipes*, Gmel. Mr. Warren of Dublin informs me that he once saw fresh specimens brought to Mr. Glennon's shop, and which were stated by the person in whose possession they were to have been found in the taking down of a lock for repairs at Ringsend, Dublin.
- Balanus scoticus*, Brown's Illus. pl. 7. f. 22. This species or variety is found on *Pecten maximus* in the north, and on the Dublin coast by Dr. Farran, who remarks that he has obtained it only on this shell.
- Balanus punctatus*, Mont. Found at Carrickfergus; common on the island of Ireland's Eye, Dublin coast (W. T.), and at Youghal (R. Ball).
- Balanus candidus*, Leach, Brown's Illus. pl. 6. f. 8–10†. Specimens of this fine *Balanus* taken off the northern coast of Dublin, or between Carlingford and the Isle of Man, are in the collections of Mr. Warren, Dr. Farran, and Mr. R. Ball of Dublin. The largest specimen is three inches in height (not reckoning valves) and nearly as much in diameter. The species varies greatly in form,

* The Bangor noted throughout this paper is on the coast of Down.

† See correction of *L. scoticus* and *L. candidus* in description of plate 32.

being sometimes much elongated, and of similar breadth from base to top, but is generally subpyramidal. Dr. Farran states that it is always adherent to *Modiolus vulgaris*; and is brought up in the trawl-nets used in taking flat-fish.

ANNELIDA.

Erpobdella tessulata, Müll. (sp.); *Nephele tess.*, Brightwell, Ann. Nat. Hist. vol. ix. p. 13. pl. 1. f. 15-17. In a letter from the Rev. Benj. J. Clarke, dated Tuam, Nov. 22, 1843, it is remarked—"I have a living *Nephele tessulata* with the young adhering; I took it in a river here last July with others of the same species, and as this one contained ova, I kept it until the young were born. They have not increased in size for the last two months, and have been clinging to the unfortunate mother for three months." In a subsequent letter it was mentioned that "the parent died in March (after having been kept in a bottle of water for nine months), and left her numerous progeny adhering in a cluster to the side of the glass. They did not leave her body until the hour of her death: they have increased very little in size in the last four months."

Piscicola geometra, Linn. (sp.) Lough Eaghish, county Monaghan, and Lough Neagh, Mr. Hyndman. Mr. Templeton has described and figured a new species from the latter locality in Loudon's 'Magazine of Natural History,' vol. ix. p. 236. f. 28, and named it *P. Percæ*. The specimens observed by Mr. Hyndman are the true *P. geometra* as distinguished from *P. Percæ*.

Clepsina hyalina, Müll. (sp.), Brightwell, Ann. Nat. Hist. vol. ix. p. 15. pl. 1. f. 20. Ballydrain lake, &c. near Belfast, W. T. Leamington, Warwickshire, W. T.

"*Lumbricus lineatus*, Müll., Johnst. Mag. Nat. Hist. vol. viii. p. 259. f. 36. Coast of Down, W. T." Dr. Johnston,—to whom a large collection of Irish Annelides was submitted for being named and described; the localities noted were attached to the specimens.

Cirratulus medusa, Johnst., Mag. Zool. and Bot. vol. ii. p. 71. pl. 3. f. 7-12. Found under stones on the beach at Clew bay, co. Mayo, July 1840, W. T.; dredged in Dalkey sound, Dublin bay, R. Ball and E. Forbes.

Trophonia Goodsiri, Johnst., Ann. Nat. Hist. vol. iv. p. 371. pl. 11. f. 1-10. Dredged in Strangford lough, near Portaferry, July 1838, W. T. The specimens from which the original description was drawn up, were taken in June 1839 at the Orkneys by Messrs. Forbes and Goodsir: Donaghadee, Dr. Drummond. The Irish specimens are much smaller than those described by Dr. Johnston, but the bristles on every part of the body are considerably longer in proportion to the size of the animal than in those from Orkney; they are finely iridescent, like the bristles of the *Aphrodita aculeata*.

"*Terebella cirrhata*, Mont., Linn. Trans. vol. xii. p. 342. pl. 12. f. 1. Coast of Down, W. T." Dr. J.

Sabella reniformis, Turt. (sp.); *Tubularia penicillus*, Müll., Zool. Dan. vol. iii. t. 89. f. 1, 2. In a pool among the rocks at the entrance to Strangford lough, Mr. Hyndman and W. T.

"*Sabella penicillus*, Linn.; *Amphitrite ventilabrum*, var. 2; Turt., Penn. &c. Coast of Down, W. T.; Bangor, Mr. R. Patterson." Dr. J.

"*Sabella carnea*, Johnst. MSS. This species was noticed by Montagu, 'Test. Brit.' p. 544, but not named; I have a beautiful figure of it, made some years ago; it is not uncommon in Berwick bay, Belfast bay, Strangford lough, open coast of Down, W. T. &c." Dr. J.

"*Sabella tubularia*, Mont. (sp.); Berkeley, Zool. Journ. vol. v. p. 426. *Serpula tubul.*, Mont., Johnst., Loudon's Mag. Nat. Hist. vol. vii. p. 126. f. 23; Brown's Illus. pl. 2. f. 9, 10. Strangford lough, Mr. Hyndman and W. T." Dr. J.

"*Serpula vermicularis*, Linn. (not Mont.): *Tubus verm.*, Ellis, Corall. pl. 38. f. 2. *Serp. verm.*, Brown's Illus. pl. 2. f. 2, 3, and *Vermilia triquetra*, pl. 2. f. 1. Strangford lough, Mr. Hyndman and W. T." Dr. J.

Templeton gives "*S. vermicularis*, Linn." in his catalogue, Mag. Nat. Hist. vol. ix. p. 233; but as the species so named by Linnæus and that by Montagu are different, it is thought proper to notice both here. The following synonyms relate to the latter species.

"*Serpula intricata*, Linn.; *S. vermicularis*, Müll., Zool. Dan. vol. iii. p. 9. t. 86. f. 9. (animal); Mont. Test. Brit. p. 509. *S. Mulleri*, Berkeley, Mag. Nat. Hist. vol. vii. p. 421." Dr. J. *Serp. vermicularis*, Mont., is noticed in Capt. Brown's 'Irish Testacea' as found on the Dublin coast and in Lough Strangford.

Serpula serrulata, Flem., Edin. Ency. vol. vii. p. 67. pl. 204. f. 8. *S. tricuspidata*, Sowerby. In a letter from Mr. John Humphreys of Cork, this species is mentioned under the latter name as "detected by G. B. Sowerby on *Pinnae* sent him from Cork harbour."

Serpula vitrea, Fabr.? Adherent to a stone brought up from deep water, on which were also *Crania personata* and *Caryophyllia Smithii*: Youghal, R. Ball*.

"*Syllis armillaris*, Müll. (sp.); *Nereis arm.*, Müll., Wurm. p. 150. t. 9. f. 1-5. Coast of Down, W. T." Dr. J.

"*Phyllodoce lamelligera*, Johnst., Ann. Nat. Hist. vol. iv. p. 225. pl. 7. f. 1-3. Coast of Down; Belfast Bay, W. T. Strangford lough, Mr. Hyndman and W. T. Bangor, Dr. Drummond.

"*Obs.*—Except in being of much smaller size; the specimen from the last-named locality corresponds well with Blainville's figure of *P. Paretti*. The more I examine the subject, the more I be-

* *Vermilia armata*, Flem. Edin. Phil. Journ. vol. xii. p. 243: Strangford lough, W. T.,—*Serpula contortus*, Brown's MSS. Illus. pl. 2: Dublin coast, Mr. Warren,—are brought by Dr. Johnston under *Serpula triquetra*, Linn.

come satisfied that *Phyl. laminosa**, *P. lamelligera* and *P. Paretti* are one and the same species; the differences pointed out between them depending, first, on age; secondly, on the description having in some instances been made from living specimens, and in others from specimens preserved in spirits." Dr. J.

"*Phyllodoce viridis*, Johnst., Ann. Nat. Hist. vol. iv. p. 228. pl. 6. f. 11-15; *Ph. clavigera*, Aud. and Edw. Coast of Down, W. T." Dr. J.

"*Nephtys margaritacea*, Johnst., Loudon's Mag. Nat. Hist. vol. viii. p. 341. f. 33. Bangor, Dr. Drummond." Dr. J.

? "*Camponia eruciformis*, Johnst., Loud. Mag. Nat. Hist. vol. viii. p. 179. f. 18. Bangor, Dr. Drummond." Dr. J.

FORAMINIFERA.

Spirolina carinatula, Mont. (sp.); *Nautilus carin.*, Mont. In shell-sand from Bundoran, co. Donegal, collected by Mrs. Hancock.

Renoidea rotundata, Brown's Illus. pl. 1. f. 14, 15. With last.

———— *oblonga*, Brown's Illus. pl. 1. f. 16, 17. With last.

———— *glabra*, Brown's Illus. pl. 1. f. 20, 21. In shell-sand collected at Portmarnock, and sent me by Mr. Warren.

Nodosaria recta, Maton and Rack. (sp.), Mont.; *Nautilus recta*. Bundoran, Mrs. Hancock.

ENTOZOA.

"*Botriocephalus auriculatus*, Rud., Syn. p. 479. Found in the smooth dog-fish, *Mustelus laevis*." Communicated by Dr. J. L. Drummond.

"*Botriocephalus crassiceps*, Rud. Found in the hake, *Merlucius vulgaris*." Dr. D.

"*Distoma anguilla*, Müll., Zool. Dan. t. 91. Found in the intestines of the conger-eel, *Anguilla Conger*." Dr. D.

"*Ascaris simplex*, Rud. Found in the stomach of the porpoise, *Phocæna communis*." Dr. D.

"*Ascaris rigida*, Rud. Found in the stomach of the fishing-frog, *Lophius piscatorius*." Dr. D.

"*Ascaris crenata*, Zed., Rud. Found in the starling, *Sturnus vulgaris*." Dr. D.

ECHINODERMATA.

Cucumaria pentactes, Müll. (sp.), Forbes's Brit. Echin. p. 213. In the fifth vol. of the 'Annals,' p. 247, I noticed the *Holothuria pen-*

* "*Phyllodoce laminosa*, Sav.—Aud. and Edw. Litt. de la France, vol. ii. p. 222. pl. 5 A. f. 1-8. Portpatrick, Capt. Fayrer, R.N. The specimen was fifteen inches long, although a considerable piece of the posterior end was wanting, and consisted of 230 segments or thereabouts. The body was of a rich bluish-purple colour on both surfaces with pearly reflections; the lamellæ over the feet were dusky olive. In other respects, the correspondence between it and the description of the species in the work above cited was very exact."—Dr. Johnston's remarks on a specimen from Scotland submitted to his examination.

tactes of the 'Zoologia Danica' with doubt, from an examination of an injured specimen. I can now announce the species with certainty, Dr. Drummond having procured an example of it when dredging at Bangor in June 1839.

ACALEPHA.

- "*Cydippe pileus*, Linn. (sp.) Irish Sea." Communicated by Professor E. Forbes.
- "*Melicertum campanulatum*, Ehrenb. Ballycastle; Portrush, near Giant's Causeway." E. F.
- "*Aurelia aurita*, Linn. (sp.) North, west, and east coasts." E. F. A species so called has been before noticed as Irish, but as more than one has passed under the name, the true species according to Prof. Forbes is here repeated.
- "*Aurelia bilobata*, Forbes MSS. Portrush." E. F.
- "*Cyanea Lamarckii*, Péron. County Galway coast, July 1840." R. Ball, W. Thompson, E. F.

ZOOPHYTA.

- Thuiaria Thuia*, Linn. (sp.) Miss Ball's collection contains a specimen presented by Mrs. Acheson Lyle as from Portrush, near the Giant's Causeway: on further inquiry being kindly made by this lady, it was ascertained with certainty that a few specimens had been picked up on the coast of Londonderry, between Moville and Greencastle, by Mr. Sawers.
- Zoanthus Couchii*, Johnst. MSS. A specimen of this is in Mr. R. Ball's collection, adherent to a stone dredged many years ago off the southern coast.
- Lepralia verrucosa*, Esper (sp.); *Lep. Johnstoni*, Bean MSS. Dublin coast, Miss Ball, 1837*.

AMORPHOZOA.

- Grantia lacunosa*, Bean, Johnst. British Sponges, p. 176. pl. 20. f. 2, 3. Strangford lough, near Portaferry, July 1838, W. T. Dredged from a depth of eight to ten fathoms at Donaghadee, May 1843, Dr. Drummond.

* *Pedicellina echinata*, Sars., is noticed by Mr. Hassall in the 'Annals,' vol. vii. p. 365, as found in Dublin bay. I had some years before that time seen specimens from our north and south coasts; from Courtmasherry harbour (co. Cork), where they were found by Mr. Geo. J. Allman "at low spring tides attached to *Sertulariæ*, &c. in a little rocky fissure scarcely uncovered even at the lowest tides;" and from about the entrance of Belfast bay, where they were dredged from a moderate depth on different occasions by Mr. Hyndman and Mr. Patterson. In May last, Dr. Drummond dredged likewise from a moderate depth, a group of the *Pedicellina* adherent to a stone at Donaghadee, county Down.